

Claims

1. An acoustic pick-up, more particularly an ultrasonic pick-up for acoustically diagnosing machines, having a housing (2) inside which are located a piezoelectric measuring element (7, 30) for generating an electric measurement signal (31) and an electronic circuit (15, 35) by means of which the measurement signal can be conditioned into a form suitable for transmission to an evaluation device located outside the housing, characterized in that means (30, 34, 42) are provided by which the auxiliary power required for operating the electronic circuit (35) can be generated from the acoustic signal requiring to be picked up.

2. The acoustic pick-up as claimed in claim 1, characterized in that the auxiliary power can be generated from the electric measurement signal (31) of the piezoelectric measuring element (30).

3. The acoustic pick-up as claimed in claim 2, characterized in that a frequency separating filter (32) is provided for separating the electric measurement signal (31) of the piezoelectric measuring element (30) essentially into an evaluation signal (36) in at least one first frequency range and into a supply signal (37) in at least one second frequency range separated from the first.

4. The acoustic pick-up as claimed in claim 3, characterized in that a device (42) is provided for rectifying and smoothing the supply signal (37).